ABSTRACT OF THE DISCLOSURE

An enhanced cryptographic system of high security for a referable ciphering of a block of data bits under control of a cryptographic key or for generating a non referable ciphering of a block of data bits with said cryptographic system being based upon the traditional DES but

5   utilizing a variable permutation or linear transformation after the S box substitution function. Said variable permutation is able to be realized in an FPGA implementing the variable permutation via a switching network such as an Omega or Bennes-Waksman network with the switching network control elements under control of the cryptographic key and with an electable mode compatible with the traditional single DES and TDEA and their various modes

10   and with a further capability for a privacy mode within a set of holders of common cryptographic key via a sub key selection mask.

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